

# SEQUENCE LISTING

<110> Bristol-Myers Squibb Company

<120> A NOVEL HUMAN G-PROTEIN COUPLED RECEPTOR, HGPRBMY23, EXPRESSED HIGHLY IN KIDNEY

<130> D0077 NP

<150> US 60/251,926

<151> 2000-12-07

<150> US 60/269,795

<151> 2001-02-14

<160> 55

<170> PatentIn version 3.0

<210> 1

<211> 1081

<212> DNA

<213> homo sapiens

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<221> CDS

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His Tyr Leu Pro Val Ile Tyr Gly Ile Ile Phe Leu Val Gly Phe Pro
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ggc aat gca gta gtg ata tcc act tac att ttc aaa atg aga cct tgg      248
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tat ctg acc agc ctc ccc ttc ctg att cac tac tat gcc agt ggc gaa      344
Tyr Leu Thr Ser Leu Pro Phe Leu Ile His Tyr Tyr Ala Ser Gly Glu
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Phe Arg Tyr Cys Val Ile Ile His Pro Met Ser Cys Phe Ser Ile His	
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Lys Thr Arg Cys Ala Val Val Ala Cys Ala Val Val Trp Ile Ile Ser	
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Leu Val Ala Val Ile Pro Met Thr Phe Leu Ile Thr Ser Thr Asn Arg	
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Thr Asn Arg Ser Ala Cys Leu Asp Leu Thr Ser Ser Asp Glu Leu Asn	
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Pro Leu Val Ile Val Thr Leu Cys Tyr Thr Thr Ile Ile His Thr Leu	
210 215 220 225	
acc cat gga ctg caa act gac agc tgc ctt aag cag aaa gca cga agg	776
Thr His Gly Leu Gln Thr Asp Ser Cys Leu Lys Gln Lys Ala Arg Arg	
230 235 240	
cta acc att ctg cta ctc ctt gca ttt tac gta tgt ttt tta ccc ttc	824
Leu Thr Ile Leu Leu Leu Leu Ala Phe Tyr Val Cys Phe Leu Pro Phe	
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His Ile Leu Arg Val Ile Arg Ile Glu Ser Arg Leu Leu Ser Ile Ser	
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Cys Ser Ile Glu Asn Gln Ile His Glu Ala Tyr Ile Val Ser Arg Pro	
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Leu Ala Ala Leu Asn Thr Phe Gly Asn Leu Leu Leu Tyr Val Val Val	
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Ser Asp Asn Phe Gln Gln Ala Val Cys Ser Thr Val Arg Cys Lys Val	
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Pro Gly Asn Ala Val Val Ile Ser Thr Tyr Ile Phe Lys Met Arg Pro  
 50 55 60

Trp Lys Ser Ser Thr Ile Ile Met Leu Asn Leu Ala Cys Thr Asp Leu  
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Leu Tyr Leu Thr Ser Leu Pro Phe Leu Ile His Tyr Tyr Ala Ser Gly  
 85 90 95

Glu Asn Trp Ile Phe Gly Asp Phe Met Cys Lys Phe Ile Arg Phe Ser  
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Phe His Phe Asn Leu Tyr Ser Ser Ile Leu Phe Leu Thr Cys Phe Ser  
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Ile Phe Arg Tyr Cys Val Ile Ile His Pro Met Ser Cys Phe Ser Ile  
 130 135 140

His Lys Thr Arg Cys Ala Val Val Ala Cys Ala Val Val Trp Ile Ile  
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Ser Leu Val Ala Val Ile Pro Met Thr Phe Leu Ile Thr Ser Thr Asn  
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Arg Thr Asn Arg Ser Ala Cys Leu Asp Leu Thr Ser Ser Asp Glu Leu  
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Asn Thr Ile Lys Trp Tyr Asn Leu Ile Leu Thr Ala Thr Thr Phe Cys  
195 200 205

Leu Pro Leu Val Ile Val Thr Leu Cys Tyr Thr Thr Ile Ile His Thr  
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Leu Thr His Gly Leu Gln Thr Asp Ser Cys Leu Lys Gln Lys Ala Arg  
225 230 235 240

Arg Leu Thr Ile Leu Leu Leu Leu Ala Phe Tyr Val Cys Phe Leu Pro  
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Phe His Ile Leu Arg Val Ile Arg Ile Glu Ser Arg Leu Leu Ser Ile  
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Ser Cys Ser Ile Glu Asn Gln Ile His Glu Ala Tyr Ile Val Ser Arg  
275 280 285

Pro Leu Ala Ala Leu Asn Thr Phe Gly Asn Leu Leu Leu Tyr Val Val  
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Val Ser Asp Asn Phe Gln Gln Ala Val Cys Ser Thr Val Arg Cys Lys  
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 35 40 45  
 Leu Val Phe Ile Thr Gly Phe Leu Gly Asn Ser Val Ala Ile Trp Met  
 50 55 60  
 Phe Val Phe His Met Arg Pro Trp Ser Gly Ile Ser Val Tyr Met Phe  
 65 70 75 80  
 Asn Leu Ala Leu Ala Asp Phe Leu Tyr Val Leu Thr Leu Pro Ala Leu  
 85 90 95  
 Ile Phe Tyr Tyr Phe Asn Lys Thr Asp Trp Ile Phe Gly Asp Val Met  
 100 105 110  
 Cys Lys Leu Gln Arg Phe Ile Phe His Val Asn Leu Tyr Gly Ser Ile  
 115 120 125  
 Leu Phe Leu Thr Cys Ile Ser Val His Arg Tyr Thr Gly Val Val His  
 130 135 140  
 Pro Leu Lys Ser Leu Gly Arg Leu Lys Lys Lys Asn Ala Val Tyr Val  
 145 150 155 160  
 Ser Ser Leu Val Trp Ala Leu Val Val Ala Val Ile Ala Pro Ile Leu  
 165 170 175  
 Phe Tyr Ser Gly Thr Gly Val Arg Arg Asn Lys Thr Ile Thr Cys Tyr  
 180 185 190  
 Asp Thr Thr Ala Asp Glu Tyr Leu Arg Ser Tyr Phe Val Tyr Ser Met  
 195 200 205  
 Cys Thr Thr Val Phe Met Phe Cys Ile Pro Phe Ile Val Ile Leu Gly  
 210 215 220  
 Cys Tyr Gly Leu Ile Val Lys Ala Leu Ile Tyr Lys Asp Leu Asp Asn  
 225 230 235 240  
 Ser Pro Leu Arg Arg Lys Ser Ile Tyr Leu Val Ile Ile Val Leu Thr  
 245 250 255  
 Val Phe Ala Val Ser Tyr Leu Pro Phe His Val Met Lys Thr Leu Asn  
 260 265 270  
 Leu Arg Ala Arg Leu Asp Phe Gln Thr Pro Gln Met Cys Ala Phe Asn  
 275 280 285  
 Asp Lys Val Tyr Ala Thr Tyr Gln Val Thr Arg Gly Leu Ala Ser Leu  
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 Asn Ser Cys Val Asp Pro Ile Leu Tyr Phe Leu Ala Gly Asp Thr Phe  
 305 310 315 320  
 Arg Arg Arg Leu Ser Arg Ala Thr Arg Lys Ser Ser Arg Arg Ser Glu  
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 35 40 45

Leu Val Phe Ile Thr Gly Phe Leu Gly Asn Ser Val Ala Ile Trp Met  
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Phe Val Phe His Met Arg Pro Trp Ser Gly Ile Ser Val Tyr Met Phe  
 65 70 75 80

Asn Leu Ala Leu Ala Asp Phe Leu Tyr Val Leu Thr Leu Pro Ala Leu  
 85 90 95

Ile Phe Tyr Tyr Phe Asn Lys Thr Asp Trp Ile Phe Gly Asp Val Met  
 100 105 110

Cys Lys Leu Gln Arg Phe Ile Phe His Val Asn Leu Tyr Gly Ser Ile  
 115 120 125

Leu Phe Leu Thr Cys Ile Ser Val His Arg Tyr Thr Gly Val Val His  
 130 135 140

Pro Leu Lys Ser Leu Gly Arg Leu Lys Lys Lys Asn Ala Val Tyr Val  
 145 150 155 160

Ser Ser Leu Val Trp Ala Leu Val Val Ala Val Ile Ala Pro Ile Leu  
 165 170 175

Phe Tyr Ser Gly Thr Gly Val Arg Arg Asn Lys Thr Ile Thr Cys Tyr  
 180 185 190

Asp Thr Thr Ala Asp Glu Tyr Leu Arg Ser Tyr Phe Val Tyr Ser Met  
 195 200 205

Cys Thr Thr Val Phe Met Phe Cys Ile Pro Phe Ile Val Ile Leu Gly  
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Cys Tyr Gly Leu Ile Val Lys Ala Leu Ile Tyr Lys Asp Leu Asp Asn  
 225 230 235 240

10010568.120704

Ser Pro Leu Arg Arg Lys Ser Ile Tyr Leu Val Ile Ile Val Leu Thr  
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 Val Phe Ala Val Ser Tyr Leu Pro Phe His Val Met Lys Thr Leu Asn  
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 Leu Arg Ala Arg Leu Asp Phe Gln Thr Pro Gln Met Cys Ala Phe Asn  
 275 280 285  
 Asp Lys Val Tyr Ala Thr Tyr Gln Val Thr Arg Gly Leu Ala Ser Leu  
 290 295 300  
 Asn Ser Cys Val Asp Pro Ile Leu Tyr Phe Leu Ala Gly Asp Thr Phe  
 305 310 315 320  
 Arg Arg Arg Leu Ser Arg Ala Thr Arg Lys Ser Ser Arg Arg Ser Glu  
 325 330 335  
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 35 40 45  
 Phe Gln Phe Tyr Tyr Leu Pro Ala Val Tyr Ile Leu Val Phe Ile Ile  
 50 55 60  
 Gly Phe Leu Gly Asn Ser Val Ala Ile Trp Met Phe Val Phe His Met  
 65 70 75 80  
 Lys Pro Trp Ser Gly Ile Ser Val Tyr Met Phe Asn Leu Ala Leu Ala  
 85 90 95  
 Asp Phe Leu Tyr Val Leu Thr Leu Pro Ala Leu Ile Phe Tyr Tyr Phe  
 100 105 110  
 Asn Lys Thr Asp Trp Ile Phe Gly Asp Ala Met Cys Lys Leu Gln Arg  
 115 120 125  
 Phe Ile Phe His Val Asn Leu Tyr Gly Ser Ile Leu Phe Leu Thr Cys

100105501001

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Ile Ser Ala His Arg Tyr Ser Gly Val Val Tyr Pro Leu Lys Ser Leu  
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Gly Arg Leu Lys Lys Lys Asn Ala Ile Tyr Val Ser Val Leu Val Trp  
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Leu Ile Val Val Val Ala Ile Ser Pro Ile Leu Phe Tyr Ser Gly Thr  
180 185 190

Gly Thr Arg Lys Asn Lys Thr Val Thr Cys Tyr Asp Thr Thr Ser Asn  
195 200 205

Asp Tyr Leu Arg Ser Tyr Phe Ile Tyr Ser Met Cys Thr Thr Val Ala  
210 215 220

Met Phe Cys Ile Pro Leu Val Leu Ile Leu Gly Cys Tyr Gly Leu Ile  
225 230 235 240

Val Lys Ala Leu Ile Tyr Asn Asp Leu Asp Asn Ser Pro Leu Arg Arg  
245 250 255

Lys Ser Ile Tyr Leu Val Ile Ile Val Leu Thr Val Phe Ala Val Ser  
260 265 270

Tyr Ile Pro Phe His Val Met Lys Thr Met Asn Leu Arg Ala Arg Leu  
275 280 285

Asp Phe Gln Thr Pro Glu Met Cys Asp Phe Asn Asp Arg Val Tyr Ala  
290 295 300

Thr Tyr Gln Val Thr Arg Gly Leu Ala Ser Leu Asn Ser Cys Val Asp  
305 310 315 320

Pro Ile Leu Tyr Phe Leu Ala Gly Asp Thr Phe Arg Arg Arg Leu Ser  
325 330 335

Arg Ala Thr Arg Lys Ala Ser Arg Arg Ser Glu Ala Asn Leu Gln Ser  
340 345 350

Lys Ser Glu Glu Met Thr Leu Asn Ile Leu Ser Glu Phe Lys Gln Asn  
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Gly Asp Thr Ser Leu  
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<400> 6

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 35 40 45  
 Phe Gln Phe Tyr Tyr Leu Pro Ala Val Tyr Ile Leu Val Phe Ile Ile  
 50 55 60  
 Gly Phe Leu Gly Asn Ser Val Ala Ile Trp Met Phe Val Phe His Met  
 65 70 75 80  
 Lys Pro Trp Ser Gly Ile Ser Val Tyr Met Phe Asn Leu Ala Leu Ala  
 85 90 95  
 Asp Phe Leu Tyr Val Leu Thr Leu Pro Ala Leu Ile Phe Tyr Tyr Phe  
 100 105 110  
 Asn Lys Thr Asp Trp Ile Phe Gly Asp Val Met Cys Lys Leu Gln Arg  
 115 120 125  
 Phe Ile Phe His Val Asn Leu Tyr Gly Ser Ile Leu Phe Leu Thr Cys  
 130 135 140  
 Ile Ser Ala His Arg Tyr Ser Gly Val Val Tyr Pro Leu Lys Ser Leu  
 145 150 155 160  
 Gly Arg Leu Lys Lys Lys Asn Ala Ile Tyr Val Ser Val Leu Val Trp  
 165 170 175  
 Leu Ile Val Val Val Ala Ile Ser Pro Ile Leu Phe Tyr Ser Gly Thr  
 180 185 190  
 Gly Ile Arg Lys Asn Lys Thr Val Thr Cys Tyr Asp Ser Thr Ser Asp  
 195 200 205  
 Glu Tyr Leu Arg Ser Tyr Phe Ile Tyr Ser Met Cys Thr Thr Val Ala  
 210 215 220  
 Met Phe Cys Ile Pro Leu Val Leu Ile Leu Gly Cys Tyr Gly Leu Ile  
 225 230 235 240  
 Val Arg Ala Leu Ile Tyr Lys Asp Leu Asp Asn Ser Pro Leu Arg Arg  
 245 250 255  
 Lys Ser Ile Tyr Leu Val Ile Ile Val Leu Thr Val Phe Ala Val Ser  
 260 265 270  
 Tyr Ile Pro Phe His Val Met Lys Thr Met Asn Leu Arg Ala Arg Leu  
 275 280 285  
 Asp Phe Gln Thr Pro Glu Met Cys Asp Phe Asn Asp Arg Val Tyr Ala  
 290 295 300  
 Thr Tyr Gln Val Thr Arg Gly Leu Ala Ser Leu Asn Ser Cys Val Asp  
 305 310 315 320

Pro Ile Leu Tyr Phe Leu Ala Gly Asp Thr Phe Arg Arg Arg Leu Ser  
325 330 335

Arg Ala Thr Arg Lys Ala Ser Arg Arg Ser Glu Ala Asn Leu Gln Ser  
340 345 350

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Gly Asp Thr Ser Leu  
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Phe Gln Phe Tyr Tyr Leu Pro Ala Val Tyr Ile Leu Val Phe Ile Ile  
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Gly Phe Leu Gly Asn Ser Val Ala Ile Trp Met Phe Val Phe His Met  
65 70 75 80

Lys Pro Trp Ser Gly Ile Ser Val Tyr Met Phe Asn Leu Ala Leu Ala  
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Asp Phe Leu Tyr Val Leu Thr Leu Pro Ala Leu Ile Phe Tyr Tyr Phe  
100 105 110

Asn Lys Thr Asp Trp Ile Phe Gly Asp Ala Met Cys Lys Leu Gln Arg  
115 120 125

Phe Ile Phe His Val Asn Leu Tyr Gly Ser Ile Leu Phe Leu Thr Cys  
130 135 140

Ile Ser Ala His Arg Tyr Ser Gly Val Val Tyr Pro Leu Lys Ser Leu  
145 150 155 160

Gly Arg Leu Lys Lys Lys Asn Ala Val Tyr Ile Ser Val Leu Val Trp  
165 170 175

Leu Ile Val Val Val Gly Ile Ser Pro Ile Leu Phe Tyr Ser Gly Thr  
180 185 190

Gly Ile Arg Lys Asn Lys Thr Ile Thr Cys Tyr Asp Thr Thr Ser Asp  
195 200 205

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Glu Tyr Leu Arg Ser Tyr Phe Ile Tyr Ser Met Cys Thr Thr Val Ala  
210 215 220

Met Phe Cys Val Pro Leu Val Leu Ile Leu Gly Cys Tyr Gly Leu Ile  
225 230 235 240

Val Arg Ala Leu Ile Tyr Lys Asp Leu Asp Asn Ser Pro Leu Arg Arg  
245 250 255

Lys Ser Ile Tyr Leu Val Ile Ile Val Leu Thr Val Phe Ala Val Ser  
260 265 270

Tyr Ile Pro Phe His Val Met Lys Thr Met Asn Leu Arg Ala Arg Leu  
275 280 285

Asp Phe Gln Thr Pro Glu Met Cys Ala Phe Asn Asp Arg Val Tyr Ala  
290 295 300

Thr Tyr Gln Val Thr Arg Gly Leu Ala Ser Leu Asn Ser Cys Val Asp  
305 310 315 320

Pro Ile Leu Tyr Phe Leu Ala Gly Asp Thr Phe Arg Arg Arg Leu Ser  
325 330 335

Arg Ala Thr Arg Lys Ala Ser Arg Arg Ser Glu Ala Asn Leu Gln Ser  
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Gly Asp Thr Ser Leu  
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35 40 45

Phe Gln Phe Tyr Tyr Leu Pro Ala Val Tyr Ile Leu Val Phe Ile Ile  
50 55 60

Gly Phe Leu Gly Asn Ser Val Ala Ile Trp Met Phe Val Phe His Met  
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Lys Pro Trp Ser Gly Ile Ser Val Tyr Met Phe Asn Leu Ala Leu Ala

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Asp Phe Leu Tyr Val Leu Thr Leu Pro Ala Leu Ile Phe Tyr Tyr Phe		
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Asn Lys Thr Asp Trp Ile Phe Gly Asp Ala Met Cys Lys Leu Gln Arg		
115	120	125
Phe Ile Phe His Val Asn Leu Tyr Gly Ser Ile Leu Phe Leu Thr Cys		
130	135	140
Ile Ser Ala His Arg Tyr Ser Gly Val Val Tyr Pro Leu Lys Ser Leu		
145	150	155
Gly Arg Leu Lys Lys Lys Asn Ala Ile Cys Ile Ser Val Leu Val Trp		
165	170	175
Leu Ile Val Val Val Ala Ile Ser Pro Ile Leu Phe Tyr Ser Gly Thr		
180	185	190
Gly Val Arg Lys Asn Lys Thr Ile Thr Cys Tyr Asp Thr Thr Ser Asp		
195	200	205
Glu Tyr Leu Arg Ser Tyr Phe Ile Tyr Ser Met Cys Thr Thr Val Ala		
210	215	220
Met Phe Cys Val Pro Leu Val Leu Ile Leu Gly Cys Tyr Gly Leu Ile		
225	230	235
Val Arg Ala Leu Ile Tyr Lys Asp Leu Asp Asn Ser Pro Leu Arg Arg		
245	250	255
Lys Ser Ile Tyr Leu Val Ile Ile Val Leu Thr Val Phe Ala Val Ser		
260	265	270
Tyr Ile Pro Phe His Val Met Lys Thr Met Asn Leu Arg Ala Arg Leu		
275	280	285
Asp Phe Gln Thr Pro Ala Met Cys Ala Phe Asn Asp Arg Val Tyr Ala		
290	295	300
Thr Tyr Gln Val Thr Arg Gly Leu Ala Ser Leu Asn Ser Cys Val Asp		
305	310	315
Pro Ile Leu Tyr Phe Leu Ala Gly Asp Thr Phe Arg Arg Arg Leu Ser		
325	330	335
Arg Ala Thr Arg Lys Ala Ser Arg Arg Ser Glu Ala Asn Leu Gln Ser		
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Gly Asp Thr Ser Leu		
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 <213> RATTUS NORVEGICUS

<400> 9

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Leu	Leu	Pro	Met	Ser	Tyr	Ala	Val	Val	Phe	Val	Leu	Gly	Leu	Ala	Leu	35	40	45	
Asn	Ala	Pro	Thr	Leu	Trp	Leu	Phe	Leu	Phe	Arg	Leu	Arg	Pro	Trp	Asp	50	55	60	
Ala	Thr	Ala	Thr	Tyr	Met	Phe	His	Leu	Ala	Leu	Ser	Asp	Thr	Leu	Tyr	65	70	75	80
Val	Leu	Ser	Leu	Pro	Thr	Leu	Val	Tyr	Tyr	Tyr	Ala	Ala	Arg	Asn	His	85	90	95	
Trp	Pro	Phe	Gly	Thr	Gly	Leu	Cys	Lys	Phe	Val	Arg	Phe	Leu	Phe	Tyr	100	105	110	
Trp	Asn	Leu	Tyr	Cys	Ser	Val	Leu	Phe	Leu	Thr	Cys	Ile	Ser	Val	His	115	120	125	
Arg	Tyr	Leu	Gly	Ile	Cys	His	Pro	Leu	Arg	Ala	Ile	Arg	Trp	Gly	Arg	130	135	140	
Pro	Arg	Phe	Ala	Ser	Leu	Leu	Cys	Leu	Gly	Val	Trp	Leu	Val	Val	Ala	145	150	155	160
Gly	Cys	Leu	Val	Pro	Asn	Leu	Phe	Phe	Val	Thr	Thr	Asn	Ala	Asn	Gly	165	170	175	
Thr	Thr	Ile	Leu	Cys	His	Asp	Thr	Thr	Leu	Pro	Glu	Glu	Phe	Asp	His	180	185	190	
Tyr	Val	Tyr	Phe	Ser	Ser	Ala	Val	Met	Val	Leu	Leu	Phe	Gly	Leu	Pro	195	200	205	
Phe	Leu	Ile	Thr	Leu	Val	Cys	Tyr	Gly	Leu	Met	Ala	Arg	Arg	Leu	Tyr	210	215	220	
Arg	Pro	Leu	Pro	Gly	Ala	Gly	Gln	Ser	Ser	Ser	Arg	Leu	Arg	Ser	Leu	225	230	235	240
Arg	Thr	Ile	Ala	Val	Val	Leu	Thr	Val	Phe	Ala	Val	Cys	Phe	Val	Pro	245	250	255	
Phe	His	Ile	Thr	Arg	Thr	Ile	Tyr	Tyr	Gln	Ala	Arg	Leu	Leu	Gln	Ala	260	265	270	

Asp Cys His Val Leu Asn Ile Val Asn Val Val Tyr Lys Val Thr Arg  
275 280 285

Pro Leu Ala Ser Ala Asn Ser Cys Leu Asp Pro Val Leu Tyr Leu Phe  
290 295 300

Thr Gly Asp Lys Tyr Arg Asn Gln Leu Gln Gln Leu Cys Arg Gly Ser  
305 310 315 320

Lys Pro Lys Pro Arg Thr Ala Ala Ser Ser Leu Ala Leu Val Thr Leu  
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Phe Ser Ala Tyr Glu Gly Asp Arg Leu  
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Ala Arg Lys Ala Leu Thr Arg Thr Thr Ile Tyr Met Leu Asn Leu Ala  
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Met Ala Asp Leu Leu Tyr Val Cys Ser Leu Pro Leu Leu Ile Tyr Asn  
65 70 75 80

Tyr Thr Gln Lys Asp Tyr Trp Pro Phe Gly Asp Phe Thr Cys Lys Phe  
85 90 95

Val Arg Phe Gln Phe Tyr Thr Asn Leu His Gly Ser Ile Leu Phe Leu  
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Thr Cys Ile Ser Val Gln Arg Tyr Met Gly Ile Cys His Pro Leu Ala  
115 120 125

Ser Trp His Lys Lys Lys Gly Lys Lys Leu Thr Trp Leu Val Cys Ala  
130 135 140

Ala Val Trp Phe Ile Val Ile Ala Gln Cys Leu Pro Thr Phe Val Phe  
145 150 155 160

Ala Ser Thr Gly Thr Gln Arg Asn Arg Thr Val Cys Tyr Asp Leu Ser  
165 170 175

10010558 120704

Pro Pro Asp Arg Ser Thr Ser Tyr Phe Pro Tyr Gly Ile Thr Leu Thr  
180 185 190

Ile Thr Gly Phe Leu Leu Pro Phe Ala Ala Ile Leu Ala Cys Tyr Cys  
195 200 205

Ser Met Ala Arg Ile Leu Cys Gln Lys Asp Glu Leu Ile Gly Leu Ala  
210 215 220

Val His Lys Lys Lys Asp Lys Ala Val Arg Met Ile Ile Ile Val Val  
225 230 235 240

Ile Val Phe Ser Ile Ser Phe Phe Pro Phe His Leu Thr Lys Thr Ile  
245 250 255

Tyr Leu Ile Val Arg Ser Ser Ala Ser Leu Pro Cys Pro Thr Leu Gln  
260 265 270

Ala Phe Ala Ile Ala Tyr Lys Cys Thr Arg Pro Phe Ala Ser Met Asn  
275 280 285

Ser Val Leu Asp Pro Ile Leu Phe Tyr Phe Thr Gln Arg Lys Phe Arg  
290 295 300

Glu Ser Thr Arg Tyr Leu Leu Asp Lys Met Ser Ser Lys Trp Arg Gln  
305 310 315 320

Asp His Cys Ile Ser Tyr Gly Ser  
325

<210> 11  
<211> 374  
<212> PRT  
<213> MELEAGRIS GALLOPAVO

<400> 11

Met Asp Ala Pro Val Arg Met Phe Ser Leu Ala Pro Trp Thr Pro Thr  
1 5 10 15

Pro Thr Pro Trp Leu Gly Gly Asn Thr Thr Ala Ala Ala Glu Ala Lys  
20 25 30

Cys Val Phe Asn Glu Glu Phe Lys Phe Ile Leu Leu Pro Ile Ser Tyr  
35 40 45

Gly Ile Val Phe Val Val Gly Leu Pro Leu Asn Ser Trp Ala Met Trp  
50 55 60

Ile Phe Val Ser Arg Met Arg Pro Trp Asn Ala Thr Thr Thr Tyr Met  
65 70 75 80

Phe Asn Leu Ala Ile Ser Asp Thr Leu Tyr Val Phe Ser Leu Pro Thr  
85 90 95

Leu Val Tyr Tyr Tyr Ala Asp Arg Asn Asn Trp Pro Phe Gly Lys Val

100					105					110					
Phe	Cys	Lys	Ile	Val	Arg	Phe	Leu	Phe	Tyr	Ala	Asn	Leu	Tyr	Ser	Ser
	115						120					125			
Ile	Leu	Phe	Leu	Thr	Cys	Ile	Ser	Val	His	Arg	Tyr	Met	Gly	Ile	Cys
	130						135					140			
His	Pro	Ile	Arg	Ser	Leu	Lys	Trp	Val	Lys	Thr	Lys	His	Ala	Arg	Leu
145					150					155					160
Ile	Cys	Val	Gly	Val	Trp	Leu	Val	Val	Thr	Ile	Cys	Leu	Ile	Pro	Asn
			165						170						175
Leu	Ile	Phe	Val	Thr	Thr	Ser	Ser	Lys	Asp	Asn	Ser	Thr	Leu	Cys	His
			180						185				190		
Asp	Thr	Thr	Lys	Pro	Glu	Glu	Phe	Asp	His	Tyr	Val	His	Tyr	Ser	Ser
	195						200					205			
Ser	Ile	Met	Ala	Leu	Leu	Phe	Gly	Ile	Pro	Phe	Leu	Val	Ile	Val	Val
	210						215				220				
Cys	Tyr	Cys	Leu	Met	Ala	Lys	Arg	Leu	Cys	Lys	Arg	Ser	Phe	Pro	Ser
225					230					235					240
Pro	Ser	Pro	Arg	Val	Pro	Ser	Tyr	Lys	Lys	Arg	Ser	Ile	Lys	Met	Ile
				245					250					255	
Ile	Ile	Val	Leu	Thr	Val	Phe	Ala	Ile	Cys	Phe	Val	Pro	Phe	His	Ile
			260					265					270		
Thr	Arg	Thr	Leu	Tyr	Tyr	Thr	Ser	Arg	Tyr	Phe	Gln	Ala	Asp	Cys	Gln
		275					280					285			
Thr	Leu	Asn	Ile	Ile	Asn	Phe	Thr	Tyr	Lys	Ile	Thr	Arg	Pro	Leu	Ala
	290					295					300				
Ser	Ile	Asn	Ser	Cys	Leu	Asp	Pro	Ile	Leu	Tyr	Phe	Met	Ala	Gly	Asp
305					310					315					320
Lys	Tyr	Arg	Gly	Arg	Leu	Arg	Arg	Gly	Ala	Ala	Gln	Arg	Pro	Arg	Pro
				325					330					335	
Val	Pro	Thr	Ser	Leu	Leu	Ala	Leu	Val	Ser	Pro	Ser	Val	Asp	Ser	Ser
			340					345					350		
Val	Val	Gly	Ser	Cys	Cys	Asn	Ser	Glu	Ser	Arg	Gly	Met	Gly	Thr	Val
		355					360					365			
Trp	Ser	Arg	Gly	Gly	Gln										
	370														

<210> 12  
 <211> 537  
 <212> PRT  
 <213> XENOPUS LAEVIS



<400> 12

Met Thr Glu Asp Ile Met Ala Thr Ser Tyr Pro Thr Phe Leu Thr Thr  
1 5 10 15  
Pro Tyr Leu Pro Met Lys Leu Leu Met Asn Leu Thr Asn Asp Thr Glu  
20 25 30  
Asp Ile Cys Val Phe Asp Glu Gly Phe Lys Phe Leu Leu Leu Pro Val  
35 40 45  
Ser Tyr Ser Ala Val Phe Met Val Gly Leu Pro Leu Asn Ile Ala Ala  
50 55 60  
Met Trp Ile Phe Ile Ala Lys Met Arg Pro Trp Asn Pro Thr Thr Val  
65 70 75 80  
Tyr Met Phe Asn Leu Ala Leu Ser Asp Thr Leu Tyr Val Leu Ser Leu  
85 90 95  
Pro Thr Leu Val Tyr Tyr Tyr Ala Asp Lys Asn Asn Trp Pro Phe Gly  
100 105 110  
Glu Val Leu Cys Lys Leu Val Arg Phe Leu Phe Tyr Ala Asn Leu Tyr  
115 120 125  
Ser Ser Ile Leu Phe Leu Thr Cys Ile Ser Val His Arg Tyr Arg Gly  
130 135 140  
Val Cys His Pro Ile Thr Ser Leu Arg Arg Met Asn Ala Lys His Ala  
145 150 155 160  
Tyr Val Ile Cys Ala Leu Val Trp Leu Ser Val Thr Leu Cys Leu Val  
165 170 175  
Pro Asn Leu Ile Phe Val Thr Val Ser Pro Lys Val Lys Asn Thr Ile  
180 185 190  
Cys His Asp Thr Thr Arg Pro Glu Asp Phe Ala Arg Tyr Val Glu Tyr  
195 200 205  
Ser Thr Ala Ile Met Cys Leu Leu Phe Gly Ile Pro Cys Leu Ile Ile  
210 215 220  
Ala Gly Cys Tyr Gly Leu Met Thr Arg Glu Leu Met Lys Pro Ile Val  
225 230 235 240  
Ser Gly Asn Gln Gln Thr Leu Pro Ser Tyr Lys Lys Arg Ser Ile Lys  
245 250 255  
Thr Ile Ile Phe Val Met Ile Ala Phe Ala Ile Cys Phe Met Pro Phe  
260 265 270  
His Ile Thr Arg Thr Leu Tyr Tyr Tyr Ala Arg Leu Leu Gly Ile Lys  
275 280 285

Cys Tyr Ala Leu Asn Val Ile Asn Val Thr Tyr Lys Val Thr Arg Pro  
290 295 300

Leu Ala Ser Ala Asn Ser Cys Ile Asp Pro Ile Leu Tyr Phe Leu Ala  
305 310 315 320

Asn Asp Arg Tyr Arg Arg Arg Leu Ile Arg Thr Val Arg Arg Arg Ser  
325 330 335

Ser Val Pro Asn Arg Arg Cys Met His Thr Asn His Pro Gln Thr Glu  
340 345 350

Pro His Met Thr Ala Gly Pro Leu Pro Val Ile Ser Ala Glu Glu Ile  
355 360 365

Pro Ser Asn Gly Ser Met Val Arg Asp Glu Asn Gly Glu Gly Ser Arg  
370 375 380

Glu His Arg Val Glu Trp Thr Asp Thr Lys Glu Ile Asn Gln Met Met  
385 390 395 400

Asn Arg Arg Ser Thr Ile Lys Arg Asn Ser Thr Asp Lys Asn Asp Met  
405 410 415

Lys Glu Asn Arg His Gly Glu Asn Tyr Leu Pro Tyr Val Glu Val Val  
420 425 430

Glu Lys Glu Asp Tyr Glu Thr Lys Arg Glu Asn Arg Lys Thr Thr Glu  
435 440 445

Gln Ser Ser Lys Thr Asn Ala Glu Gln Asp Glu Leu Gln Thr Gln Ile  
450 455 460

Asp Ser Arg Leu Lys Arg Gly Lys Trp Gln Leu Ser Ser Lys Lys Gly  
465 470 475 480

Ala Ala Gln Glu Asn Glu Lys Gly His Met Glu Pro Ser Phe Glu Gly  
485 490 495

Glu Gly Thr Ser Thr Trp Asn Leu Leu Thr Pro Lys Met Tyr Gly Lys  
500 505 510

Lys Asp Arg Leu Ala Lys Asn Val Glu Glu Val Gly Tyr Gly Lys Glu  
515 520 525

Lys Glu Leu Gln Asn Phe Pro Lys Ala  
530 535

<210> 13  
<211> 3/4  
<212> PRT  
<213> RATTUS NORVEGICUS

<400> 13

Met Ala Ala Gly Leu Asp Ser Trp Asn Ser Thr Ile Asn Gly Thr Trp  
1 5 10 15

Glu Gly Asp Glu Leu Gly Tyr Lys Cys Arg Phe Asn Glu Asp Phe Lys  
 20 25 30  
 Tyr Val Leu Leu Pro Val Ser Tyr Gly Val Val Cys Val Leu Gly Leu  
 35 40 45  
 Cys Leu Asn Val Val Ala Leu Tyr Ile Phe Leu Cys Arg Leu Lys Thr  
 50 55 60  
 Trp Asn Ala Ser Thr Thr Tyr Met Phe His Leu Ala Val Ser Asp Ser  
 65 70 75 80  
 Leu Tyr Ala Ala Ser Leu Pro Leu Leu Val Tyr Tyr Tyr Ala Gln Gly  
 85 90 95  
 Asp His Trp Pro Phe Ser Thr Val Leu Cys Lys Leu Val Arg Phe Leu  
 100 105 110  
 Phe Tyr Thr Asn Leu Tyr Cys Ser Ile Leu Phe Leu Thr Cys Ile Ser  
 115 120 125  
 Val His Arg Cys Leu Gly Val Leu Arg Pro Leu His Ser Leu Ser Trp  
 130 135 140  
 Gly His Ala Arg Tyr Ala Arg Arg Val Ala Ala Val Val Trp Val Leu  
 145 150 155 160  
 Val Leu Ala Cys Gln Ala Pro Val Leu Tyr Phe Val Thr Thr Ser Val  
 165 170 175  
 Arg Gly Thr Arg Ile Thr Cys His Asp Thr Ser Ala Arg Glu Leu Phe  
 180 185 190  
 Ser His Phe Val Ala Tyr Ser Ser Val Met Leu Gly Leu Leu Phe Ala  
 195 200 205  
 Val Pro Phe Ser Ile Ile Leu Val Cys Tyr Val Leu Met Ala Arg Arg  
 210 215 220  
 Leu Leu Lys Pro Ala Tyr Gly Thr Thr Gly Leu Pro Arg Ala Lys Arg  
 225 230 235 240  
 Lys Ser Val Arg Thr Ile Ala Leu Val Leu Ala Val Phe Ala Leu Cys  
 245 250 255  
 Phe Leu Pro Phe His Val Thr Arg Thr Leu Tyr Tyr Ser Phe Arg Ser  
 260 265 270  
 Leu Asp Leu Ser Cys His Thr Leu Asn Ala Ile Asn Met Ala Tyr Lys  
 275 280 285  
 Ile Thr Arg Pro Leu Ala Ser Ala Asn Ser Cys Leu Asp Pro Val Leu  
 290 295 300  
 Tyr Phe Leu Ala Gly Gln Arg Leu Val Arg Phe Ala Arg Asp Ala Lys  
 305 310 315 320

Pro Ala Thr Glu Pro Thr Pro Ser Pro Gln Ala Arg Arg Lys Leu Gly  
325 330 335

Leu His Arg Pro Asn Arg Thr Asp Thr Val Arg Lys Asp Leu Ser Ile  
340 345 350

Ser Ser Asp Asp Ser Arg Arg Thr Glu Ser Thr Pro Ala Gly Ser Glu  
355 360 365

Thr Lys Asp Ile Arg Leu  
370

<210> 14

<211> 328

<212> PRT

<213> GALLUS GALLUS

<400> 14

Met Ser Met Ala Asn Phe Thr Gly Gly Arg Asn Ser Cys Thr Phe His  
1 5 10 15

Glu Glu Phe Lys Gln Val Leu Leu Pro Leu Val Tyr Ser Val Val Phe  
20 25 30

Leu Leu Gly Leu Pro Leu Asn Ala Val Val Ile Gly Gln Ile Trp Leu  
35 40 45

Ala Arg Lys Ala Leu Thr Arg Thr Thr Ile Tyr Met Leu Asn Leu Ala  
50 55 60

Met Ala Asp Leu Leu Tyr Val Cys Ser Leu Pro Leu Leu Ile Tyr Asn  
65 70 75 80

Tyr Thr Gln Lys Asp Tyr Trp Pro Phe Gly Asp Phe Thr Cys Lys Phe  
85 90 95

Val Arg Phe Gln Phe Tyr Thr Asn Leu His Gly Ser Ile Leu Phe Leu  
100 105 110

Thr Cys Ile Ser Val Gln Arg Tyr Met Gly Ile Cys His Pro Leu Ala  
115 120 125

Ser Trp His Lys Lys Lys Gly Lys Lys Leu Thr Trp Leu Val Cys Ala  
130 135 140

Ala Val Trp Phe Ile Val Ile Ala Gln Cys Leu Pro Thr Phe Val Phe  
145 150 155 160

Ala Ser Thr Gly Thr Gln Arg Asn Arg Thr Val Cys Tyr Asp Leu Ser  
165 170 175

Pro Pro Asp Arg Ser Thr Ser Tyr Phe Pro Tyr Gly Ile Thr Leu Thr  
180 185 190

Ile Thr Gly Phe Leu Leu Pro Phe Ala Ala Ile Leu Ala Cys Tyr Cys

195                      200                      205

Ser Met Ala Arg Ile Leu Cys Gln Lys Asp Glu Leu Ile Gly Leu Ala  
 210                      215                      220

Val His Lys Lys Lys Asp Lys Ala Val Arg Met Ile Ile Ile Val Val  
 225                      230                      235                      240

Ile Val Phe Ser Ile Ser Phe Phe Pro Phe His Leu Thr Lys Thr Ile  
                     245                      250                      255

Tyr Leu Ile Val Arg Ser Ser Ala Ser Leu Pro Cys Pro Thr Leu Gln  
                     260                      265                      270

Ala Phe Ala Ile Ala Tyr Lys Cys Thr Arg Pro Phe Ala Ser Met Asn  
                     275                      280                      285

Ser Val Leu Asp Pro Ile Leu Phe Tyr Phe Thr Gln Arg Lys Phe Arg  
                     290                      295                      300

Glu Ser Thr Arg Tyr Leu Leu Asp Lys Met Ser Ser Lys Trp Arg Gln  
 305                      310                      315                      320

Asp His Cys Ile Ser Tyr Gly Ser  
                     325

<210> 15  
 <211> 8  
 <212> PRT  
 <213> bacteriophage T7

<400> 15

Asp Tyr Lys Asp Asp Asp Lys  
 1                      5

<210> 16  
 <211> 733  
 <212> DNA  
 <213> homo sapiens

<400> 16  
 gggatccgga gcccaaatct tctgacaaaa ctcacacatg ccacccgtgc ccagcacctg 60  
 aattcgaggg tgcacccgtca gtcttctctt tccccccaaa acccaaggac accctcatga 120  
 tctcccggac toctgaggtc' acatgcgttg tggtggacgt aagccacgaa gacccctgagg 180  
 tcaagttcaa ctgglacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg 240  
 aggagcagta caacagcacg taccgtgtgg tcagcgtcct caccgtcctg caccaggact 300  
 ggctgaatgg caaggagtac aagtgcagg tctccaacaa agccctccca acccccatcg 360  
 agaaaaccat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac accctgcccc 420  
 catcccggga tgagctgacc aagaaccagg tcagcctgac ctgcctggtc aaaggcttct 480

atccaagcga catcgccgtg gagggggaga gcaatgggca gccggagaac aactacaaga 540  
ccacgcctcc cgtgctggac tccgacggct ccttcttctt ctacagcaag ctcaccgtgg 600  
acaagagcag gtggcagcag gggaacgtct tctcatgctc cgtgatgcat gaggctctgc 660  
acaaccacta cagcagaag agcctctccc tgtctccggg taaatgagtg cgacggccgc 720  
gactctagag gat 733

<210> 17  
<211> 26  
<212> PRT  
<213> homo sapiens

<400> 17

Tyr Leu Pro Val Ile Tyr Gly Ile Ile Phe Leu Val Gly Phe Pro Gly  
1 5 10 15

Asn Ala Val Val Ile Ser Thr Tyr Ile Phe  
20 25

<210> 18  
<211> 30  
<212> PRT  
<213> homo sapiens

<400> 18

Ser Ser Thr Ile Ile Met Leu Asn Leu Ala Cys Thr Asp Leu Leu Tyr  
1 5 10 15

Leu Thr Ser Leu Pro Phe Leu Ile His Tyr Tyr Ala Ser Gly  
20 25 30

<210> 19  
<211> 22  
<212> PRT  
<213> homo sapiens

<400> 19

Phe Asn Leu Tyr Ser Ser Ile Leu Phe Leu Thr Cys Phe Ser Ile Phe  
1 5 10 15

Arg Tyr Cys Val Ile Ile  
20

<210> 20  
<211> 23  
<212> PRT  
<213> homo sapiens

<400> 20

Ala Val Val Ala Cys Ala Val Val Trp Ile Ile Ser Leu Val Ala Val  
1 5 10 15

Ile Pro Met Thr Phe Leu Ile  
20

<210> 21  
<211> 21  
<212> PRT  
<213> homo sapiens

<400> 21

Trp Tyr Asn Leu Ile Leu Thr Ala Thr Thr Phe Cys Leu Pro Leu Val  
1 5 10 15

Ile Val Thr Leu Cys  
20

<210> 22  
<211> 22  
<212> PRT  
<213> homo sapiens

<400> 22

Leu Thr Ile Leu Leu Leu Leu Ala Phe Tyr Val Cys Phe Leu Pro Phe  
1 5 10 15

His Ile Leu Arg Val Ile  
20

<210> 23  
<211> 20  
<212> PRT  
<213> homo sapiens

<400> 23

Val Ser Arg Pro Leu Ala Ala Leu Asn Thr Phe Gly Asn Leu Leu Leu  
1 5 10 15

Tyr Val Val Val  
20

<210> 24  
<211> 14  
<212> PRT  
<213> homo sapiens

<400> 24

Leu Asp Tyr Leu Ala Asn Ala Ser Asp Phe Pro Asp Tyr Ala  
1 5 10

<210> 25

<211> 14  
<212> PRT  
<213> homo sapiens

<400> 25

Ala Ala Ala Phe Gly Asn Cys Thr Asp Glu Asn Ile Pro Leu  
1 5 10

<210> 26  
<211> 14  
<212> PRT  
<213> homo sapiens

<400> 26

Leu Ile Thr Ser Thr Asn Arg Thr Asn Arg Ser Ala Cys Leu  
1 5 10

<210> 27  
<211> 14  
<212> PRT  
<213> homo sapiens

<400> 27

Ser Thr Asn Arg Thr Asn Arg Ser Ala Cys Leu Asp Leu Thr  
1 5 10

<210> 28  
<211> 13  
<212> PRT  
<213> homo sapiens

<400> 28

Phe Leu Ile Thr Ser Thr Asn Arg Thr Asn Arg Ser Ala  
1 5 10

<210> 29  
<211> 13  
<212> PRT  
<213> homo sapiens

<400> 29

Thr Ser Thr Asn Arg Thr Asn Arg Ser Ala Cys Leu Asp  
1 5 10

<210> 30  
<211> 13  
<212> PRT  
<213> homo sapiens

<400> 30

Ser Asp Glu Leu Asn Thr Ile Lys Trp Tyr Asn Leu Ile



1 5 10

<210> 31  
<211> 13  
<212> PRT  
<213> homo sapiens

<400> 31

Gln Ala Val Cys Ser Thr Val Arg Cys Lys Val Ser Gly  
1 5 10

<210> 32  
<211> 22  
<212> DNA  
<213> homo sapiens

<400> 32  
cttgcaagat gaaaggagac aa

22

<210> 33  
<211> 20  
<212> DNA  
<213> homo sapiens

<400> 33  
aatatttcaa gggttgtttg

20

<210> 34  
<211> 20  
<212> DNA  
<213> homo sapiens

<400> 34  
gatcagcctg tctcgacctc

20

<210> 35  
<211> 20  
<212> DNA  
<213> homo sapiens

<400> 35  
gatccgaatg accctcaaga

20

<210> 36  
<211> 36  
<212> DNA  
<213> Homo sapiens

<400> 36  
ccgctagcgc atgaatgagc cactagacta tttagc

36

<210> 37  
<211> 68  
<212> DNA  
<213> Homo sapiens

<400> 37  
cgggatccct attacttgtc gtcgtcgccc ttgtagttca tagggttggt tgagtaacta 60  
attttctt 68

<210> 38  
<211> 24  
<212> DNA  
<213> Homo sapiens

<400> 38  
gaggatgagg agagctatga caca 24

<210> 39  
<211> 22  
<212> DNA  
<213> Homo sapiens

<400> 39  
ccctttgcac tcataacgtc ag 22

<210> 40  
<211> 29  
<212> DNA  
<213> Homo sapiens

<400> 40  
aaacacacag tcatcatagg gcagctcgt 29

<210> 41  
<211> 39  
<212> DNA  
<213> Homo sapiens

<400> 41  
gcagcagcgg ccgcatgcac tacctccctg ttatttatg 39

<210> 42  
<211> 37  
<212> DNA  
<213> Homo sapiens

<400> 42  
gcagcagtcg acagggttgt ttgagtaact aattttc 37

<210> 43

<211> 39  
<212> DNA  
<213> Homo sapiens

<400> 43  
gcagcagcgg ccgcatgaat gagccactag actalttag 39

<210> 44  
<211> 34  
<212> DNA  
<213> Homo sapiens

<400> 44  
gcagcagtcg acgaccacca catatagtaa cagg 34

<210> 45  
<211> 6  
<212> PRT  
<213> Homo sapiens

<400> 45  
Lys Met Arg Pro Trp Lys  
1 5

<210> 46  
<211> 18  
<212> PRT  
<213> Homo sapiens

<400> 46  
Glu Asn Trp Ile Phe Gly Asp Phe Met Cys Lys Phe Ile Arg Phe Ser  
1 5 10 15

Phe His

<210> 47  
<211> 18  
<212> PRT  
<213> Homo sapiens

<400> 47  
His Pro Met Ser Cys Phe Ser Ile His Lys Thr Arg Cys Ala Val Val  
1 5 10 15

Ala Cys

<210> 48  
<211> 24  
<212> PRT  
<213> Homo sapiens

<400> 48

Thr Ser Thr Asn Arg Thr Asn Arg Ser Ala Cys Leu Asp Leu Thr Ser  
1 5 10 15

Ser Asp Glu Leu Asn Thr Ile Lys  
20

<210> 49

<211> 24

<212> PRT

<213> Homo sapiens

<400> 49

Tyr Thr Thr Ile Ile His Thr Leu Thr His Gly Leu Gln Thr Asp Ser  
1 5 10 15

Cys Leu Lys Gln Lys Ala Arg Arg  
20

<210> 50

<211> 22

<212> PRT

<213> Homo sapiens

<400> 50

Arg Ile Glu Ser Arg Leu Leu Ser Ile Ser Cys Ser Ile Glu Asn Gln  
1 5 10 15

Ile His Glu Ala Tyr Ile  
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<210> 51

<211> 25

<212> DNA

<213> Artificial

<220>

<223> Synthesized Oligonucleotide.

<400> 51

cttcaccagg uaacaggcca gcaug

25

<210> 52

<211> 25

<212> DNA

<213> Artificial

<220>

<223> Synthesized Oligonucleotide.

<400> 52

ttcagcaatg gcaucuccug cagcc

25

<210> 53  
<211> 25  
<212> DNA  
<213> Artificial

<220>  
<223> Synthesized Oligonucleotide.

<400> 53  
aagactgctu ucuccugcuc auagg 25

<210> 54  
<211> 25  
<212> DNA  
<213> Artificial

<220>  
<223> Synthesized Oligonucleotide.

<400> 54  
atctctggcc ccaucgacaa caugg 25

<210> 55  
<211> 25  
<212> DNA  
<213> Artificial

<220>  
<223> Synthesized Oligonucleotide.

<400> 55  
acttcagtgu cuucagccaa ugga 25

10010560-100701